YEV Y. G. USCR/Human and Animal Physiology. Action of Physical Agents. GRIGOR YEV

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37009.

Author : Dorshlak, M.P., Avrunina, G.A., Grigoriev, Y.G.,

Darenskaya, N.G.

Inst

: Materials to Investigation on the Specificity of Title

Reaction of the Organism to Irradiation.

Orig Pub: Pub. Vestn. rentgenol i radiol., 1957, No 2, 3-10.

Abstract: Attention is attracted to the importance of estimation of the distribution of a dose of internal irradiation in time. In experiments on 400 mice and 115 rats the difference in the value of the absolutely minimal lethal dose of external irradiation and internal irradiation with p^{32} and the time of the animal's death become

minimal, when external irradiation was equal to internal

: 1/3 Card

133

USSR/Human and Animal Physiology. Action of Physical Agents.

Т

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37009.

by its distribution in time. However, in applications of "equivalent" external irradiation, the weight loss of the animals began on the first day, in internal irradiation on the third to fifth day. The authors believe that this is caused by uneven spatial distribution of the internal irradiation. Local single irradiation of the head (150-299 r) produced a detectable decrease of the electrical activity of the brain regardless of its original status. The reactivity of the cortex decreased only in the segments submitted to the direct action of the irradiation. In irradiation of various peripheral segments of the body the changes in the electrical activity of the brain depended upon its original condition when the original level was high, a depression of the biological currents of the brain

Card : 2/3

USSR/Human and Animal Physiology. Action of Physical Agents.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37009.

was noted, and vice-versa. In order to bring about a 100% destruction of the animal by irradiation of various segments of the body, equal in mass, various doses of radiation were needed (for the head, 2000r, chestcage, 10,000 r, the upper abdomen 5000 r.) Along with the common manifestations of radiation illness, identical for irradiations of various segments of the tody, specific changes were noted, characteristic for irradiation of definite segments of the body.

Card : 3/3

134

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051682

AUTHORS:

Bomahlak, M.C., Vanaikov, John Grigor' www and 69-7-6/32

TITLE:

Commence to

On the Estimation of Minor Incluence a Exercised by Radiation Upon the Human Organism (Ob otsenke malikh radiatsionnykh

vliyaniy na organizm cheloveka)

PERIODICAL:

Atomnaya Energiya, 1957, Vol. 3, Nr. 7, pp. 36-40 (U S2)

ABSTRACT:

An evaluation of the influence exercised by radiation upon the human organism is reliable only if the totality of data obtained from several clinical and laboratory investigations are taken into account. The present paper deals only with promising indications for latent changes in tissues occurring at a later date, and give a survey of 28 previous works dealing with the same problem. The determination of the mitotic activity of the epidermis, as well as the investigation of the anomaly on the leukocytes circulating in the blood and the changes taking place in the chromosomes in the cells of bone marrow are technically complicated and insufficiently worked out methods of investigation. Counting the thrombocytes in peripheral blood is a more exact method than counting the leukocytes because the number of thrombocytes diminishes even as a result of minor doses of radiation. In the case of larger radiation doses the following may take place: a) A change

Card 1/2

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On the Estimation of Minor Influences Exercised by Radiation Upon the Human Organism

59-7-6/32

of the thrombocytes fermula with a preponderance of riper forms, b) A change of the dimensions on the thrombocytes, in which case gigantic thrombodytes eventually occur. Also the lymph optes with two-leaved nuclei can serve as an indication for changes taking place in the organism under the influence of radiation. Also the methods for the evaluation of the functional state of the bloodforming system are pointed out. In order to determine a disturbance of the functional state of the bone merenow it is possible to use a sample with the vitamin B12, and also fluorescence microscopy can be used with success. They the minds but formation of antiparticles in irradiated organisms is in spend in short. In the Usek clinical-physiological math he are a veloped for the early discovery of damage caused by maintion; they we partly already being employed in practice. The most important smong them are the investigations of the various functions of the nervous system. The authors then discuss in detail the investigation of the functions of smell-, taste-, face-, skin-, and vestibular analyzers. There are 6 references, 1 of which is Clavic.

SUBMITTED:

January 4, 1957

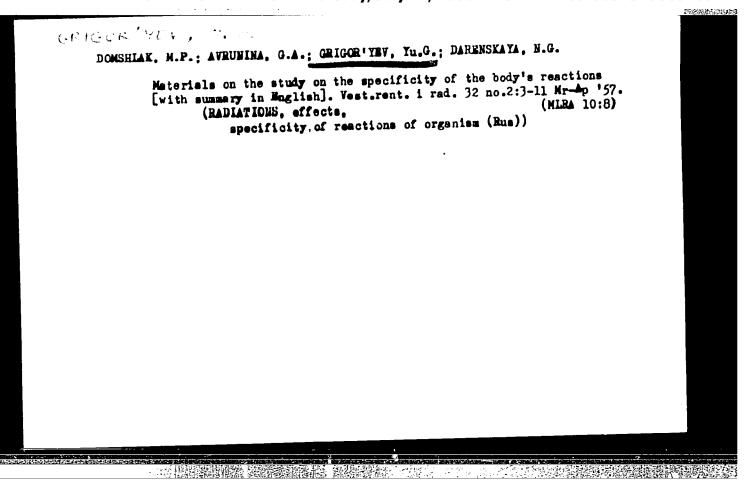
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Library of Congress

Card 2/2

1. Nadiation - Physiclorical effects

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820



M.T., tekhn.red.

[Materials for a study of the reactions of the human central nervous system to ionizing radiation] Materially k izucheniu reaktsii tsentral noi nervnoi sistemy cheloveka na ioniziruiushchee izluchenie. Moskva, Gos.izd-vo med.lit-ry Medgiz, 1958. 135 p.

(RADIATION--PHYSICLOGICAL EFFECT) (NERVOUS SYSTEM)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-

CIA-RDP86-00513R00051682

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Mathod for studying peripheral blood composition during irradiation.

Mad.rnd. 3 no.1:22-26 Ja-F '55.

(RADIATIONS. effects.

on blood, technic of investigation of peripheral changes

(BLOOD. effect of radiations.

technic of investigation of peripheral changes (Rus)
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AUTHORS:

Lebedinskiy, A. V., Grigor'yev, Yu, G., Demirchoglyan, G. G.

TITLE:

On the Biological Effect of lonizing Radiation in Small Socies.I (O biologicheskom deystvii ieniziruyushenego izlucheniya v malykh dozakh)

PERIODICAL:

Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 310-316 (USDR)

ABSTRACT:

This is a summarizing account concerning the fellowing Soviet papers: N. I. Nuzhdin, N. I. Shapiro et al.: Disturbance of the sexual cycle in female mice after a daily irradiation of 0.1 r for a period of 15 months. G. S. Strelin: With a dose of 2 r a retardation of the mitosis of the epithelium of the cornea of rats at times occurs. N. P. Smirnova (Laboratory A. V. Lebedinskiy): Irradiation of 50 r causes a phase-modification of irritability in the various centers of hypothalamic areas during stimulation by an electric current. Yu. G. Grigor'yey: The functional state of the human cerebral cortex during a therapeutical irradiation of the head and of the abdomen (electroencephalographical method). A. B. Tsypin: Recording of the biological activity of the brain of hares during irradiation with a dosage of 0.13 to 0.03 r/sec (Method developed by M. H.

Card 1/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051682

On the Biological Effect of Ionizing Radiation in Small Doses. I

Livanov). A. I. Danilenko, N. D. Stetsenko: Change of the frequency and amplitude of an electroencephalogram of a dog to which 0,1 to 1 mC/kg F^{j2} is administered. I. K. Zyuzin: In the case of serious psychic diseases the cerebral cortex has found to become more sensitive already with respect to initiator doses of radioactive substances. Ye. F. London: The "right feeling" of the eyes as a result of the radiation of radioactive substances. Ts. M. Avakyan: The electroret regram obtained after irradiation of the isolated eye of a free with doses of 10 to 100 r. G. G. Demirchoglyan, G. T. Adants, Ts. M. Avakyan: The influence of P^{j2} on the functional properties of the retina of the eye of a free. A. V. Lebedinskiy, G. G. Demirchoglyan: The influence exercised by small doces of radioactive strontium preparations upon the functional state of the retina. There are 3 figures and 35 references, 22 or which are Soviet.

(Continued on abstract 12/15)

Cará 2/2

(Continued from abstract 11/15)

malykh dozakhi

AUTHORS:

PERIODICAL:

ABSTRACT:

TITLE:

504/89-5-3-12/15 Lebedinskiy, A. V., Grigor'yev, Yu. G., Demirchoglyan, G. G. On the Biological Effect of Ionizing Radiation in Small Doses. II (O biologicheskom deystvii ioniziruyushchego izlucheniya v Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 316-320 (UCOR)

A. V. Lebedinskiy, A. I. Peymer: The dependence of the regeneration and sensitivity of the retina on metabolic processes, especially on the carbon-mater metabolism. A. V. Lebedinskiy, V. V. Yakovlev: Disturbed development of reflex-movement reactions (investigated in 300 embryos of rabbits). A. V.

Lebedinskiy, Den Chzhi-chen: Docisive change of the nervous system of living beings that have been continuously fed with Sr during embryogenesis. V. A. Muzheyev: The influence of radon radiation upon the functional state of nerves and muscles. A. I. Danilenko, N. D. Stetsenko: The nerve-cords undergo a modification of functional properties under the effect of irradiation if the radiation dose exceeds 17 erg/mm2. N. Ye. Vvedenskiv: The

shortening of the duration of herve reflexes as a result of small dones. V. N. Strel'tsova: If 1 500 - 1800 MC Cs 137 or Card 1/2

SOV/89-5-3-12/15 On the Biological Effect of Jonizing Radiation in Small Doses.II

Bu 106 is administered to rate only once, the effect causing swelling is the same as if 150 + 160 AC/g were administered for a period of 100 days. N. A. Krayevskiy and N. N. Litvinov obtained a similar result. There are 1 figure and 5; references, 22 of which are poviet.

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

LEBEDINSKIY, A.V., red.; KRAYEVSKIY, N.A., red.; K.OTKOV, F.G., red.; GRIGOR'YEV, Yu.G., red.; MARGULIS, U.Ya., red.; PETROV, R.V., red.

[Collection of abstracts on radiation medicine for 1957] Sbornik referatov po radiatsionnoi meditsine za 1957 god. Moskva, Medgiz. Vol.1. 1959. 202 p. (MIRA 17:5)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

GRIBOR'YEU, Ga. U. 21(4); 17(0)

PHASE I BOOK EXPLOITATION

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International Conference on the Peaceful Uses of Atomic Energy. 2d, Geneva, 1958

Doklady sovetskikh uchenykh; radiobiologiya i radiatsionnaya meditsina (Reports of Soviet Scientists; Radiobiology and Radiation Medicine)
Moscow, Izd-vo Glav. upr. po ispol'zovaniyu atomnoy energii pri
Sovete Ministrov SSSR, 1959. 429 p. 8,000 copies printed. (Series:
Vtoraya Mezhdunarodnaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii.
Trudy, tom 5)

General Ed.: A.V. Lebedinskiy, Corresponding Member, USSR Academy of Medical Sciences; Ed.: Z.S. Shirokova; Tech. Ed.: Ye.I. Mazel'.

PURPOSE: This book is intended for physicians, scientists, and engineers as well as for professors and students at vtuzes where radiobiology and radiation medicineere taught.

COVERAGE: This is Volume 5 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held on September 1-13, 1958, in Geneva. Volume 5 contains

Card 1/7

Reports of Soviet Scientists (Cont.)

8082/708

43

32 reports edited by Candidates of Medical Sciences S.V. Levinskiy and V.V. Sedov. The reports cover problems of the biological effects of ionizing radiation, future consequences of radiation in small doses, genetic effects of radiation, treatment of radiation sickness, uses of radioactive isotopes in medical and biological research, uses of atomic energy for diagnostic and therapeutic purposes, soil absorption of uranium fission products, their intake by plants, and their storage in plants and foodstuffs. References accompany each report.

TABLE OF CONTENTS

Lebedinskiy, A.V., Yu.G. Grigor'yev, and G.G. Demirchoglyan. Biological Effect of Ionizing Radiation in Small Doses (Report No. 2068)

Burykina, L.N., D.I. Zakutinskiy, N.A. Krayevskiy, E.B. Kurlyandskaya, N.N. Litvinov, Yu.I. Moskalev, A.P. Novikova, Yu.N. Solov'yev, and V.N. Strel'tsova. Remote Aftereffects of Injury by Small Doses of Radioactive Substances in Chronic Exposure (Report No. 2077)

Gorizontov, P.D. Problem of Pathogenesis of Acute Radiation Sickness in the Pathophysiological Phase (Report No. 2316)

```
GRIGOR'YEV, Yu. G.; ANDERYEVA, M.P.; EVASNIKOVA, L.N.; PINCHUVA, T.M.;
CHUFFINA, Z.K.

Effective use of roentgenography. Med.rad. 4 no.6:3-15
Je '59.

(ROENTGENOGRAPHY,
review (Rus))
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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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TSYPIN, A.B.; GRIGOR'YEV, Yu.G. (Moskva)

Quantitative characteristics of the sensitivity of the central nervous system to ionizing radiations. Biul. eksp. biol. i med. 49 no.1:26—30 Ja '60. (MIRA 13:7)

1. Nauchnyy rukovoditel' - prof. M.N. Livanov. Predstavlena deystv. chlenom AMN SSSR V.N. Chernigovskim.

(NERVOUS SYSTEM) (RADIATION--PHYSIOLOGICAL EFFECT)

TSYPIN, A.B.; GRIGOR'YEV, Yu.G.

Method for the exclusion of hearing and destruction of the vestibilar apparatus in rabbits. Biul. eksp. biol. i med. no.2:114 F '61.

1. Predstavlena deystvitel'nym chlenom AMN SSSR A.V.Lebedinskim. (VESTIBULAR APPARATUS) (DEAFNESS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

GRIGOR*YEV, Yu.G., kand.med.nauk

Character of the development of vegetative reactions in subjects during use of angular accelerations of various magnitudes. Vest. otorin. no.6:76-81 '61. (MIRA 15:1)

1. Is kliniki Bolesmey ukha, nosa i gorla (zav. - prof. A.Kh. Min'kovskiy) Chelyabinskogo meditsinskogo instituta (rukovo-diteli roboty - deystvitel'nyy chlen AMN SSSR prof. A.V. Lebedinskiy i prof. A.Kh. Min'kovskiy).

(VESTIBULAR APPARATUS) (AGCELERATION)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

GRIGOR YEV, Yu.G.; BOKHOV, B.B. (Moskva)

New apparatus for adequate stimulation of the vestibular analysa:
with utilization of angular accelerations and strength of the
coriolis. Vest.otorin. no.6:85-87 '61. (MIRA 15:1)

(VESTIBULAR APPARATUS)

(OTOLARYNGOLOGY—EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

S/205/61/001/006/022/022 D243/D305

AUTHOR:

Grigor'yev, Yu.G.

TITLE:

Problems of the effect of small doses of ionizing

radiation on physiological functions

PERIODICAL: Radiobiologiya, v. 1, no. 6, 1961, 966 - 968

TEXT: A conference was held in Moscow, from May 22-24, 1961, at the AS USSR, Moscow, at which the problems of the effect of small doses of ionizing radiation on physiological functions were discussed. Data were presented and systematized concerning the somatic effects of low radiation doses on various biological systems and mechanisms for disturbed function. Particular attention was paid to the nervous system. The following Soviet-bloc workers are mentioned as taking part in the conference: A.M. Kuzin, A.V. Lebedinsky and Yu.I. Moskalev, who read a paper on "State and perspectives of the biological effect of small doses of ionizing radiation"; N.A. Aladzhalova, D.A. Ginsburg, V.P. Godinym, O.N. Voyevodina, L. S. Gorsheleva and G.L. Vanetsianoy; M.S. Alekseyeva, V.K. Fedorov,

Card 1/2

Problems of the effect of small ...

S/205/61/001/006/022/022 D243/D305

V.M. Zakharov, L.Ye. Khozak, O.N. Chulkova, N.N. Livshits, A.B. Tsypin, V.G. Khrushchev, N.G. Darenskaya, G.M. Pravdina, R.I. Pogosyan, N.M. Trunova, and N.A. Zapol'skaya; V.I. Kandror, N.D. Bukhman, Ye.V. Danetskaya, M.A. Lebedeva, Ya.I. Azhipa and G.A. Filyashina; B.M. Mirzoyev, S.R. Perepelkin and L.S. Potemkina; M.I. Fedotova, A.V. Lazovskaya, Yu.K. Kudritskiy, L.Ya. Zhorno, L.A. Vasil'yeva and A.V. Loseva, M.D. Tikhomirova and T.A. Bashmakova.

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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AUTHOR:

S/241/62/007/001/001/006 I015/I215

Domshlak, M. P., Grigor'yev, Yu. G., Darenskaya, N. G., Koznova, L. B., Nevskaya, G.F.

Nesterova, V. I. and Tereshchenko, N. Ya.

TITLE: Remote observations on persons subjected to radiotherapy

PERIODICAL: Meditsinskaya radiologiya, v. 7, no. 1, 1962, 10-16

TEXT: A previous report (Domshlak et. al., 1957) dealt with observations on 160 persons who had been subjected to X-ray and gamma-ray therapy 2 to 7 years prior to the study period. The present article is based on observations on 218 persons, aged thirty to sixty, at various intervals (up to 10 years) after having been subjected to radiation. In 41.9% of the cases, the general condition of persons irradiated in the past became worse. On the other hand, no abnormal pressure was noticed, despite the fact that hypertension was a common finding during the irradiation period. Ophthalmological examination did not reveal any changes except those due to aging. Various functional disorders were noticed in the nervous system, including both cortical and sub-cortical disturbances. In some cases, microsymptoms of organic damage of the CNS were present. There is I table.

SUBMITTED: July 3, 1961

Card 1/1

X

BIBIKOVA, A.F.; BUSYGIN, V.Ye.; GRIGOR'YEV, Yu.G.; KALYAYEVA, T.V.; LYUBIMOVA-GERASIMOVA, R.M.; TSYPIN, A.B.

Reaction of the organism to massive \(\mathcal{O} - \text{irradiation.} \) Pat. fiziol. i eksp. terap. 6 no.4:57-62 J1-Ag '62. (MIRA 17:8)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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BUSYGIN, V.Ye.; GRIGOR YEV, Yu.G.

Method for the objective registration of response reactions of the body following adequate stimulation of the vestibular analysor (in an experiment. Biul.eksp.biol.i med. 54 no.7:102-104 J1 '62. (MIRA 15:11)

1. Nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR A.V. Lebedinskiy. Pradstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

(LABYRINTH (EAP)) (PHYSIOLOGICAL APPARATUS)

GRIGOR'YEV, Yuriy Grigor'yetich; ZAVODCHIKOVA, A.I., red.; VLASOVA,
N.A., tekhn. red.

[Radiation lesions and compensation for disturbed functions; data from a study of the primary reactions of the organism under the influence of ionising radiation in small and large doses] Luchevye porasheniia i kompensatsiia narushennykh funktsii; materialy izucheniia pervonachal'nykh reaktsii organizma pri vozdeistvii ioniziruiushchego izlucheniia v malykh i bol'shikh dosakh. Moskva, Gosatomizdat, 1963. 201 p. (MIRA 16:5)

(Radiation--Physiological effect) (Radiation--Dosage)

ACCESSION NR: AT4042699

5/0000/63/000/000/0333/0339

AUTHOR: Lebedinskiy, A. V.; Arlashchenko, N. I.; Bokhov, B. B.; Grigor'yev, Yu.G.; Kvasnikova, L. N.; Farber, Yu. V.

TITLE: The importance of the vestibular anlayzer in the selection and training

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskuya meditsina (Aviation and space medicine); materialy.

TOPIC TAGS: rotating chamber, tilt table, rotation effect, man, Coriolia accelera-

ABSTRACT: One of the main criteria upon which the system of cosmon it selection should be based is the evaluation of the vestibular analyzer. The valuation of other systems (i. c., the visual analyzer, the retina and suscles of the eye, and interoceptors) which enable a cosmonaut to orient himself in space should be of almost equal importance in the selection program. Experience has shown that a

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ACCESSION NR: AT4042699

disruption of information concerning the position or the movement of the body can lead to vegetative disorders. This consideration led to studies of the analyzer systems of each of the cosmonauts, the interaction between analyzer systems, and the condition of vegetative functions during unusual interaction between analyzers (such as the conditions which arise during space flight). The special conditions arising during space flight are limitation of afferentation in a weightless state and the presence of unusual stimulation (vibration, noise, etc.). The differentiated study of the vestibular analyzer should include determination of the threshhold sensitivity of the semicircular canals to an adequate stimulus, determination of a reactivity curve during application of angular accelerations of various magnitudes, determination of adaptive abilities to the action of angular acceleration, and tests with Coriolis acceleration. The research on threshold sensitivity of the semicircular canals to adequate stimuli was performed for both positive and negative acceleration. Research performed on fifty healthy persons indicated that the scope of variation of threshold sensitivity is not great. It varies from 0.1 to 0.50 per sec2 (20 second action of acceleration) for positive accelerations, and 1.5 to 50 per second (for a stop stimulus of 0.15 seconds) for negative accelerations. However, various outside stimuli and physical conditions of the environment can greatly affect the thresholds of vestibular sensitivity. The data

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obtained indicate that the study of vestibular thresholds will be very helpful in the early detection of hidden disturbances in the activity of the analyzer which cannot be detected easily by other means. The most common forms of investigating the functions of the semicircular canals are various rotational tests. Current trends indicate that testing in the near future will be based on methods of minimal stimulation and successive rotations of increasing intensity. Evaluation will have to be based on methods which lend themselves to quantitative analysis. Numerous experiments have shown that training consisting of the systematic stimulation of the vestibular mechanism with the aid of various exertions otations al tests increases the vestibular stability of the subjects. The open with which adaptation takes place varies with each individual. This results in the problem of developing a test for the objective evaluation of the degree of adupt tion. Tests based on registration of mystagmus are inadequate because they and to take into account the vegetative complex. Apparently, the real picture or aptive qualities of the vestibular analyzer can only be obtained from a our a evaluation involving vestibular-vegetative, vestibular-somatic, and sensor reactions arising in response to repeated stimulations. Laboratory studies are currently being conducted in this area. The use of Coriolis accelerations as a test has as its purpose the study of the summary reaction which arises in labyrinth recept-

3/5

ACCESSION NR: AT4042699

ore in response to stimulation obtained during the combined action of angular and linear accelerations. Laboratory tests with the periodic application of Coriolis accelerations accompanied by slow rotation have indicated that even a short rotation leads to a disruption of walking, to a change in skin temperature, and to a change in the pulse frequency. At the same time, a lowering of the threshold of sensitivity to Coriolis accelerations was noted without the threshold to angular acceleration being affected. A very interesting interrelationship exists between the vestibular and optical analyzers. Laboratory experiments have confirmed that stimulation of the retina has an inhibiting effect on the vestibular analyzer. Tests have indicated that the result of interaction between the optical and the vestibular stimuli is determined by the functional condition of the vestibular analyzer was increased by radioactivity, inhibition of spontaneously arising nystagmus by optical stimulation of the retina became more distinct. The level of excitability of the vestibular analyzer was achieved by means of radioactive tars.

ASSOCIATION: none

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ACCESSION NR: AT4042699

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NO REF SOV: 000

OTHER: 000

Card 5/5

GRICOR'YEV, YU.G.

ACCESSION NR: AT4042700

5/0000/63/000/000/0339/0343

AUTHOR: Lebedinakiy, A. V.; Arlashchenko, N. I.; Buey'gin, V. Ye.; Vartbaromov, R. A.; Yenelov, A. S.; Volokhova, N. A.; Qrigor'yev, Yu. G.; Yemel'yanov, M. D.; Kalyayeva, T. V.; Kry'lov, Yu. V.; Polyakov, B. I.; Farber, Yu. V.

TITLE: Effects of Coriolis accelerations on the human organism

SOURCE: Konferentsiya po aviatsionmoy i kosmicheskoy meditsine, 1963. Aviatsionmaya i kosmicheskaya meditsina (Aviation and space medicine); materialy* konferentsii. Moscow, 1963, 339-343

TOPIC TAGS: vestibular analyser, cosmonaut selection, cosmonaut training, semicircular canal, acceleration, rotation, nystagmus, optical analyser, Coriolis acceleration

ABSTRACT: Studies of the effect of prolonged Coriolis accelerations on the human organism must be made as a preliminary step toward the creation of artificial gravity in spaceships. Studies were performed in a alouly rotating MBK-1 chamber (a cylindrically shaped ross 2.1 m in diameter and 2.3 m high, equipped with two arachairs). In the first series of experisonts, 13 healthy persons were subjected

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ACCESSION NR: AT4042700

to prolonged rotation of 1 to 5 hours at an angular velocity of 5.30/sec. In the second series of experiments, 4 subjects were rotated for 24 hours at angular velocities of 5.3, 10.6, and 21.20/sec. Coriolis accelerations were created periodically by tilting the body and head in a plane perpendicular to the plane of rotation of the chamber at the rate of 1 movement/sec. Prolonged stay of subjects with normal vestibular sensitivity under conditions of rotation at 5.3, 10.6, and 21.20/sec resulted in functional changes in the condition of the central nervous system and the cardiovascular system, and in disruption of the body temperature control and the balancing function. The degree of vegetative disorders was found to be directly proportional to the speed of rotation and the degree of vestibular sensitivity of the subjects. During cumulative action of Coriolis accelerations, the majority of the subjects developed an adaptation which was noted from 1 to 5 hours after beginning of the retation. On the basis of the results obtained, the method of prolonged alow rotation is recommended for training purposes.

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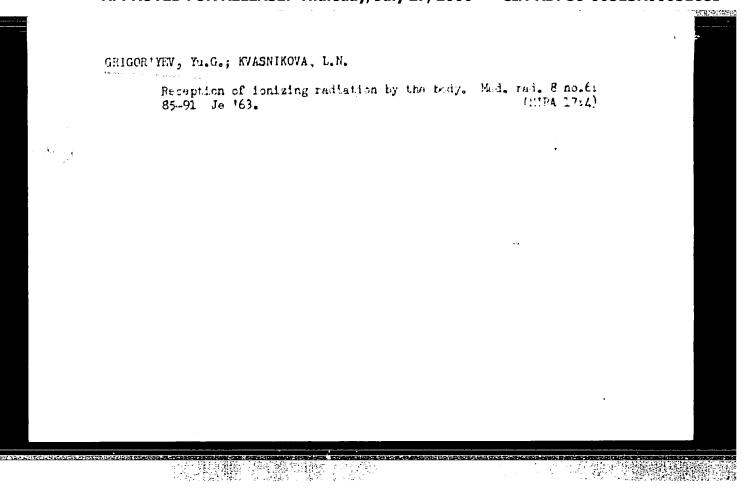
SUBMITTED: 2780963

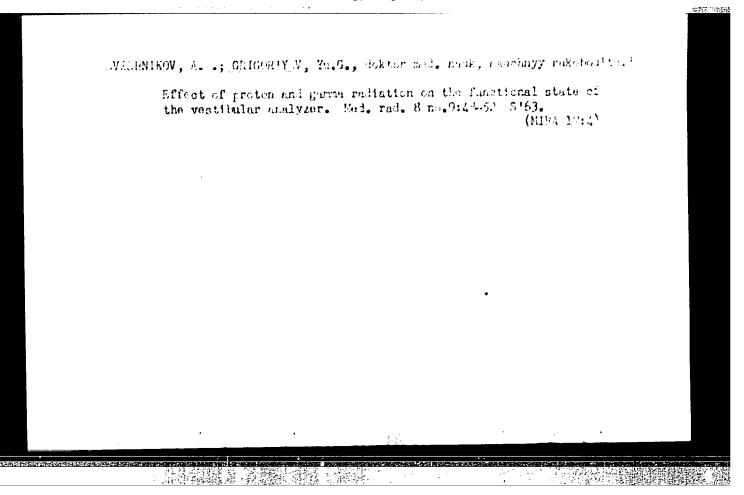
DICL: 00

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Card 2/2





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ARLASHCHENKO, N.I.; BOKHOV, B.B.; BUSYGIN, V.Ye.; VOLOKHOVA, N.A.; GRIGOR YEV, Yu.C.; POLYAKOV, B.I.; FARBER, Yu.V.

Body reactions during the prolonged effect of coriolis accelerations. Biul. eksp. biol. i med. 56 no.8:28-33 Ag 163.

(MIRA 17:7)

1. Nauchnyy rukovoditel' -- deystvitel'nyy chlen AMN SSSR prof. A.V. Lebedinskiy. Predstavleno deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

ACCESSION NR: AT4037698

s/2865/64/003/000/0278/0288

AUTHOR: Lebedinskiy, A.V.; Grigor'yev, Yu. G.; Lyubimova-Gerasimov, R. M.; Polyakov, B. I.

TITLE: Vegetative reactions during stimulation of the vestibular analyser and their possible role in complicating space flight conditions

SOURCE: AN SSSR. Otdeleniye biologicheakikh nauk. Problemy* kosmicheakoy biologii, v. 3, 1964, 278-288

TOPIC TAGS: acceleration, vestibular analyzer, space flight, Coriolis acceleration, rabbit, vegetative reflex

ABSTRACT: The role of angular accelerations and Coriolis accelerations on the vestibular function was studied by means of a BY-2 type accelerator, on which it was possible to produce angular accelerations ranging from 0.05 up to 1200 /sec and any magnitude of angular velocity up to 1800 /sec. Vegetative reactions are of special interest since by stimulating the vestibular apparatus, it is possible to observe practically all known vegetative reactions. It has been established that the magnitude of the reaction depends on the duration of the stimulus (acceleration). Data obtained indicate that after whole-body irradiation of the animal,

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ACCESSION NR: AT4037698

more time is required for acceleration to produce an equal reaction. There is reason to believe, in this case, that radiation affects the central nervous system and not the receptor. So far there have been practically no attempts made to evaluate the biological significance of vegetative reflexes which arise during stimulation of the vestibular analyzer. When rabbits were subjected to rocking in the horizontal (duration of acceleration, 0.15 sec), at 66 sec 2, a diminution of respiration amplitude was noted; at 400°/sec² the diminished amplitude increased in frequency; at 600°/sec² the amplitude dropped off sharply with no marked frequency increase; and at 1200°/sec² there was a distinct break in respiration. Reactions of the cardiovascular system to acceleration are complex. Thus, when rabbits are subjected to an acceleration of 0.05°/sec² for 30 sec, skin temperature rise s. But, if accelerations are increased to 1.5 or to 3.2°/sec² for the same duration of time, skin temperature drops. The depressive reaction appears, apparently, only in response to large accelerations because when rabbits were accelerated in the range from 60 to 800°/sec² (duration, 0.15 sec), no depressive reaction was observed. When rabbits were exposed to short-term acceleration of 5°/sec², a diminution of blood circulation in the brain was observed. This effect was distinct if the acceleration lasted 12 or 24 seconds, but indistinct if the duration was only 6 seconds. The authors have stressed the importance of.

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ACCESSION NR: AT4037698

duration of effect of acceleration on appearance of vestibular reactions. Very possibly this indicates the significant role of inclusion of the endocrine mechanism, particularly of the adrenal system, into the complex of vegetative reactions, and the consequent stimulation of the reticular formation. If the appearance of vegetative reflexes observed during stimulation of the vestibular mechanism is tied to the stimulation of the reticular formation, then, in the final analysis, their involvement must be controlled by the cortex of the cerebral hemispheres. It was also noted that stimulation of the vestibular apparatus limits the activity of the cortical component of vegetative reactions.

ASSOCIATION: none

SUBMITTED: .00

ENCL: 00

SUB CODE: PH, LS

NO REF SOV: 010

OTHER: 004

Cord 3 3/3

L 32453-65 ENG(j)/ENT(m)
ACCESSION NR: AP4048762

5/0219/64/058/011/0122/0124

AUTHOR: Arlashchenko, N. I.; Grigor'yev, Yu. G.; Malinin, A. B.

TITLE: A method for isolated destruction of the otolithic apparatus with ionizing irradiation Placement of applicators in the inner ear vestibule.

SOURCE: Byulleton' eksperimental'noy biologii i meditsiny*, v. 58, no. 11, 1964, 122-124 and insert facing p. 117

TOPIC TAGS: rabbit, ear vestibular apparatus, otolith destruction, promethium 147, beta radiation, ion exchange resin, labyrinth

ABSTRACT: Radioactive applicators with a soft beta-emitter for isolated destruction of otoliths in animals are described. Promethium-lif is recommended as a radiation source because of its low energy beta-particles (0.22 kev). A promethium-lif radiation dose decreases by about 250 times at a distance of 250 microns from the radiation source surface. This distance is equivalent to the thickness of the macula utriculi sensory epithelium containing the

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ACCESSION NR: AP4048762

cells which respond to otolith movement changes. Applicators are made of sulfonated polyethylene in the form of a plate (1 x 2 mm) or of ion exchange KU-2 resin in the form of a ball (1 mm in diameter). The radioactive applicators are placed in the inner ear vestibule of operated animals and morphological tissue changes are determined later by histological examination of temporal bone pyramid preparations. The method has been employed successfully in rabbits to destroy the otoliths without affecting the semicircular canals of the ears except for slight dilation of blood vessels. Orig. art. has: 2 figures.

ASSOCIATION: None

SUBMITTED: 23Apr63 ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 009

Card 2/2

BOKHOV, B.B.; SHIPOV, J.V., GRIDOR!YEV, Yu.G., doktor med. nauk, renewayy rukovoditel! raboty

Effort of repeated serial stimulations of the vestibular analyzer in rabbits on the quantitative relation of the duration of nystegmus to the value of negative angular acceleration. Biul. skap. biol. i med. 60 no.9:59-62 6 165. (MIRA 18:10)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051682

L 10272-66 EWT (1)/FS(v)-3 AP5028883

SOURCE CODE: UR/0219/65/060/011/0003/0006

Grigor'yev, Yu. G. (Moscow); Farber, Yu. V. (Moscow)

引擎建設 军藏門部 产育药

ORG: none

ACC NR:

TITLE: The functional condition of the vestibular analyzer in man during a 120-day stay in a hermetically sealed chamber

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 11, 1965, 3-6

TOPIC TAGS: vestibular analyzer, stimulus, cerebral cotex, counterrotation illusion, vestibular function, nystagmus

ABSTRACT: The demonstrated ability of inadequate vestibular stimuli to affect vestibular function was studied in conditions simulating life inside a spaceship. Five healthy men aged 19-32 stayed in a hermetically sealed chamber for 120 days during which time they were examined at monthly intervals. Examination was also conducted 3, 8, 18, and 33 days after they had left the chamber. The threshold of vestibular sensitivity (to an adequate stimulus) was determined on a rotating chair with the subject's head fixed at a 30° angle to the axis of rotation. The adequate stimulus consisted of the negative angular acceleration which developed when the chair stopped Vestibular sensitivity was judged by the appearance of nystagmus and the illusion of counterrotation. There was a direct correlation between the magnitude of the stimu-

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ACC NR: AP5028883

lus and the length of nystagmus in all subjects. Experimental results showed changes in nystagmus during the subject's stay in the sealed compartment: both the duration of nystagmus and the slope of plotted nystagmus curves decreased. Individual differences were noted in the pattern of decrease of these factors. No reliable changes were observed in vestibular autonomic reactions during the observation period (arwere observed in vestibular autonomic reactions during the observation period (arwere observed in vestibular autonomic reactions during the observation period (arwere observed in vestibular autonomic reactions during the observation period (arwere observed in nystagmus terial pressure, pulse rate, etc.). The threshold of sensitivity to nystagmus changed very little. By the end of the experiment, changes in cupulograms were similar for all subjects; hence, the medium which the subjects inhabited definitely influenced the condition of the vestibular analyzer. The fact that adequate vestibular stimuli are absent in these experimental conditions (with the exception of some limited motor activity) is a strong indication that the changes observed in nystagmus probably reflect functional changes in the cerebral cortex rather than changes in the receptor apparatus of the vestibular analyzer. Furthermore, increases in thresholds of the sensory component of the vestibular reaction (illusion of counterrotation) observed after subjects left the chamber were probably due to readaptation to a new routine and different physical conditions. Orig. art. has: 3 tables. [J8]

SUB CODE: 06/ SUBM DATE: 18Jan65/ ORIG REF: 005/ OTH REF: 003/ ATD PRESS:

60

Card 2/2

SOURCE CODE: UR/0000/66/000/000/01 36/01 36 AT6036541 ACC NRI AUTHOR: Grigor'yev, Yu. G.; Domilak, M. P.; Darenskaya, N. G.; Rayevskaya, S. A. ORG: none TITLE: Evaluation of radiation hazard and basis for establishing permissible doses of ionizing radiation for cosmonauts flying to the moon [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditainy. (Problems of space medicine); materialy konferentsii, Moscow, 1965, 136 TOPIC TAGS: cosmic radiation biologic effect, radiation protection, radiation dosimetry, lunar space flight, radiation permissible dose, radiation protection ABSTRACT: In estimating the potential radiation hazard of a lunar flight, the following factors were considered: 1) the space radiation environment on the lunar trajectory, 2) the combined effect of ionizing radiation and other spaceflight factors on the cosmonaut, 3) the possibility of physical shielding, and 4) the effectiveness of various recommended prophylactic substances. Radiobiological tests showed that the RBE of protons, which constitute the chief radiation hazard, is close to one. Thus it was possible to use experimental and clinical observations of gamma- and x-ray Card 1/2

irradiation to evaluate the space radiation hazard on brief flights. Experimental studies on large laboratory animals were used to establish a basis for permissible doses during lunar flight. This method permitted evaluation of the character and degree of radiation injuries from gamma and proton irradiation in the dose range to be encountered during lunar flight. In addition, clinical observations of people subjected to local irradiation for cancer treatment were analyzed. A classification of regulated doses for brief spaceflights was made on the basis of this material. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06, 18, 22 / SUBM DATE: OCMay66

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UR/0000/66/000/000/01 37/01 38 ACC NR. AT6036542 SOURCE CODE: AUTHOR: Grigor'yev, Yu. G.; Kovalev, Ye. Ye. ORG: none [Paper presented at the Conference on Problems TITIE: Spaceflight radiation hazards [Paper presented of Space Medicine held in Moscow from 24 to 27 May 1966] SCURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 137-138 TOPIC TAGS: radiation protection, radiation dosimetry, solar flare, cosmic radiation biologic effect, proton radiation biologic effect, radiation shielding, space pharmacology ABSTRACT: Cosmic radiation is made up of galactic cosmic radiation, radiation from the Earth's radiation belts and from other planets, and corpuscular radiation from solar flares. Doses from galactic cosmic radiation in interplanetary space can reach 190-250 rem/day, an obviously serious hazard both for cosmonauts and for the life-support system on a spacecraft. Mean . tissue doses from protons in the inner radiation belt can amount to 0.16 rem/day with an orbit of 500 km (orbital inclination 65°). However, electrons in the outer radiation belt have a low penetrating capacity and act chiefly on the skin. Corpuscular radiation from solar flares consists mostly of alpha particles and protons, the latter with energies ranging from several Mev to dozens of bev. This wide range of proton energy produces **Cord** 1/2

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ACC NR: AT6036542

considerable decreases in the dose absorbed at different tissue depths when relatively thin shielding is used. However, as shielding thickness is increased, high-energy protons are filtered out and dose decreases with tissue depth no longer occur. Of course the total radiobiological effect on the cosmonaut can be substantially altered by many spaceflight factors, including weightlessness, altered gas composition, and others.

A system of radiation safeguards for spaceflight must include general shielding of inhabited compartments, a radiation shelter, local shielding of cosmonauts, and pharmacochemical means of protection. Radiation cosimetry in spaceflight will be accomplished by on-board dosimeters, individual dose monitors, and signal and warning systems. Drugs carried on the spacecraft will be used for prevention and treatment of radiation injuries. In addition to complex equipment carried on board, the space radiation environment of the specific flight trajectory will be carefully monitored from Earth. [W.A. No. 22; ATD Report 66-116]

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Card 2/2

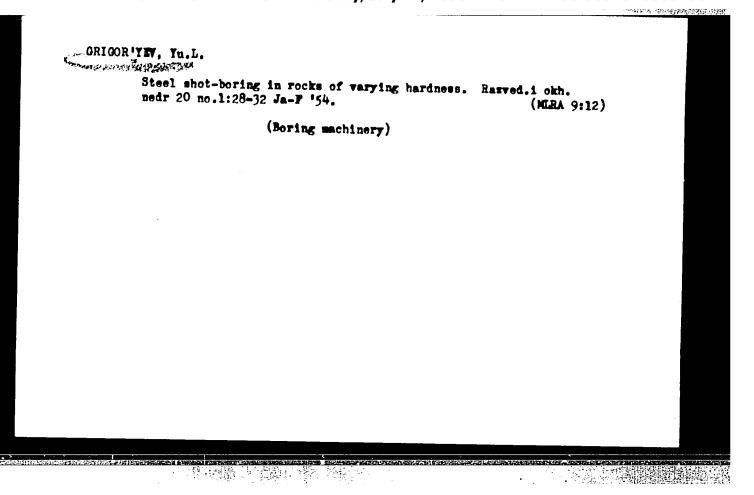
GRIGOR YEV, Yu.I., inch.; KOSTYUK, V.V., inch.; KABEROV, b.F., inch.

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CIA-RDP86-00513R00051682

VOLKOV, Aleksandr Spiridonovich; KALININ, Anatoliy Georgivevich;
BRONZOV, Anatoliy Samsonovich. Prinimal uchastiye GRIGOR'YEV,
Yu.L., inzh.; ISAYEVA, V.V., ved. red.; POLOSINA, A.S., tekhn.
red.

[Drilling pipes and their joints; a manual] Buril'nye truby i ikh soedineniia; spravochnoe rukovodstvo. Moskva, Gostoptekhizdat, 1962. 125 p. (MIRA 15:7)

GRIGOR'YEV, Yu.M., uchitel'

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Equipping a chemical laboratory. Khim. v shkole 15 no.3:41-45 My-Je '60. (MIRA 14:7)

1. Srednyaya shkola No.19 pos. Shikhany Saratovskoy oblasti. (Chemical laboratories—Equipment and supplies)

POPKO, V.N., inzh.; EEN'YAMINOVICH, I.M., inzh.; GRIGOR'YEV, Yu.M., inzh.;

Manufacture of large reinforced concrete elements made with a lime-slag binder. Bet. i zhel.-bet. 9 no.2:60-63 F '63.

(MIRA 16:5)

(Precast concrete--Testing) (Binding materials)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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POPKO, V.E., inzh.; PETUKHOYA, V.V., inzh.; GP160EYYUV, Ya.M., inzh.

Lightweight concrete on a base of round algoporites. Sbor. trud.

Sverd. nauch.-issl. inst. po stroi. no.10:93-108 '63.

(MIRA 17:10)

L 29819-66 EWT(1)/ETC(f) UR/0170/66/010/004/0491/0494 ACC NRI SOURCE CODE: 52 AP6012679 3 Grigor'yev, Yu. M. AUTHOR: ORG: Branch of the Institute of Chemical Physics of the AN SSSR, Moscow Region (Filial Instituta khimicheskoy fiziki AN SSSR, Moskovskaya oblast') TITLE: Unsteady state conductive heat transfer of a body in an infinite medium Inzhenerno-fizicheskiy zhurnal, v. 10, no. 4, 1966, 491-494 SOURCE: TOPIC TAGS: conductive heat transfer, thermodynamic analysis, Nusselt number ABSTRACT: The article gives the results of calculations of the Nusselt number for bodies of different geometrical shapes in an infinite medium, the temperature of the surface of the bodies being a function of time. The problem under consideration reduces to the solution of the following differential equation: ∂• 0 п дӨ 536.21 UDC: Card 1/2

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NR: AP6012679 initial conditions are: $\tau=0, \theta=0.$ boundary conditions are: $\xi=1, \theta=\phi_{(\tau)}, \xi\to\infty, \theta\to0.$ The equation of the condition of	be used mperatur	eture; T lusion o leting t only for e variat	tion of	2 is the athematic elt numbe ted class the surfs	time; al r for the of ice of the	
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ACCESSION NR: AP404488.

\$/0020/64/15 '/006/1427/1430

AUTHOR: Grigor'yev, Yt. M.; Maksimov, E. I.; Herzhartv, A. G.

TITLE: Ignition of explosive particles in a hot gas

AN SSSR. Doklady*, v. 157, no. 6, 1964, 1427-1430 SOURCE:

TOPIC TAGS: explosive, ignition, combustion, propellant, solid propellant, ignition delay

ABSTRACT: The ignition of spherical barium azide particles produced by abrasion of crystals on emery paper was studied at 260-650C in an assembly containing an electrically heated vertical glass tube into which a particle was introduced from the top and preheated air or nitrogen from the bottom. The falling speed of the particle could be controlled by regulating the countercurrent air flow. For shorter ignition delays a horizontal quartz tube was used. The ignition process was photographically scanned and a plot of ignition delay vs. temperature was obtained for different particle diameters (see Fig. 1 of the Enclosure). Each point represents the average of 15-20 measurements. The figure shows that the curves for different particle diam-

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L 15634-65 ACCESSION NR: AP4044885

eters intersect. The ignition delay increased with increasing particle diameter at higher temperatures. The particle radius (r_o) was correlated with the critical temperature T (the mean between the explosive and nonexplosive decomposition temperatures) by the following

$$\ln \frac{T_0^2 a r}{T_0^2} \left(1 + \frac{\psi e_1 \sigma T_0^2 c r^0}{\lambda_{c} R V} \right) = \ln \frac{Q k_0 E e}{3R \lambda_{c} a V} \frac{E}{R} \frac{1}{T_0 c r},$$

where E = 35,000 cal/mole, $Qk = 4.10^{15} cal/cm^3$ sec, $\lambda_{av} = 10^{-4} cal/cm$. sec deg, and $\psi = 4$ (E activation energy; Q, heat release rate; k_0 , preexponential factor; λ , thermal conductivity; R, gas constant). With this formula, the critical temperature was plotted versus the radius in Fig. 2. Orig. art. has: 4 figures and 3 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

Card 2/5

L 15634-65 ACCESSION NR: AP4044885

SUBMITTED: 20Apr64

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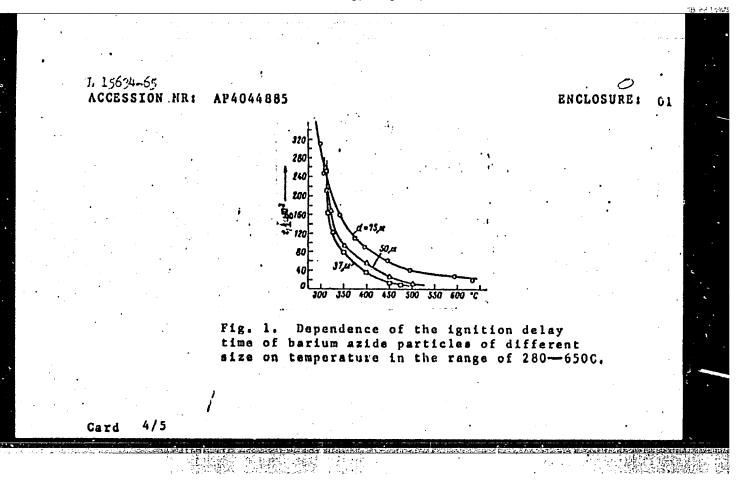
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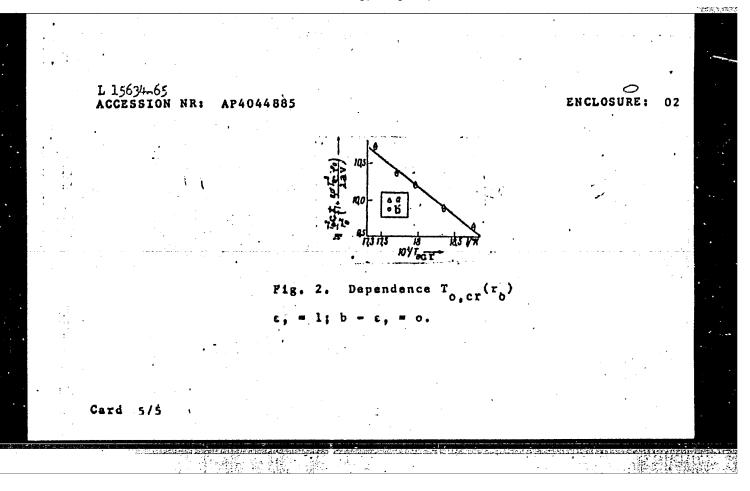
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Card 3/5

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

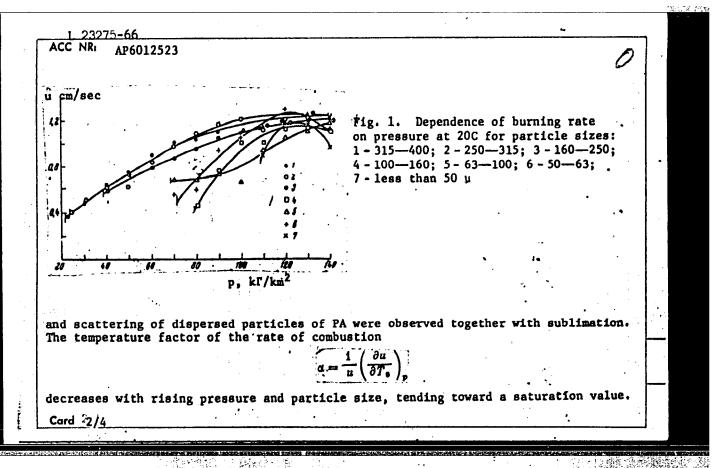


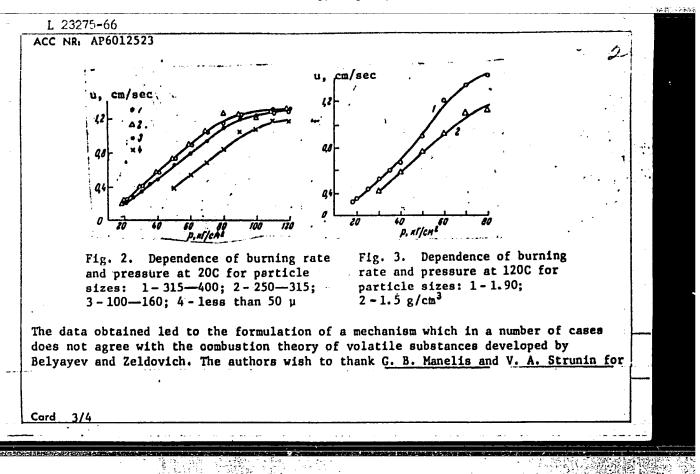


EPA/EWA(1)/EWT(m)/EWP(1)/EWA(b)-2/EWA(c)/ETC(m)L 7703-66 MV/JWD ACC NR: AP5026031 SOURCE CODE: UR/0405/65/000/001/0093/0102 Grigor'yev, Yu. M. (Moscow); Maksimov, E. I. (Moscow); Merzhanov, A. G. (Mos-**AUTHOR:** cow) 4455 ORG: none TITLE: Relationships of ignition of homogenous explosive particles in hot gas SOURCE: Nauchno-tekhnicheskiye problemy goreniya i vzryva, no. 1, 1965, 93-102 TOPIC TAGS: combustion, explosion, explosive, propellant, solid propellant ignition. 234455 5.4455 ABSTRACT: A theory of the kinetics of decomposition of nonvolatile explosive particles in a hot gas has been developed on the basis of a simple model which assumes that the exothermal reaction takes place on the surface of the condensed particle which does not undergo phase transformation or change of size in the pre-explosion period, that the spherical explosive particle enters a cavity filled with hot gas, that heat transfer inside the particle takes place by conduction and external heat transfer by conduction and radiation, and that convective transfer is absent. The analysis yielded expressions for the temperature profile in the gas and inside the particle, for the time required to heat the particle, and for the induction period. To verify the theoretical relationships, experiments were made with nitrocellulosepyroxyline powder particles (50-150 µ particle size) in horizontal and vertical glass tubes. The ignition temperatures of 50 µ particles were 255C in air and 246C Card 1/2 0701

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ACC NR: AP6012523 SOURCE CODE: UR/0062/66/000/003/0422/0429
AUTHOR: Maksimov, E. I.; Grigor'yev, Yu. M.; Merzhanov, A. G.
ORG: Institute of Chemical Physics Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)
TITLE: The rules and mechanism of ammonium perchlorate combustion
TITLE: The rules and mechanism of ammonium perchlorate combustion
SOURCE: AN SSSR. Izvestiya. Seriya khimitheskaya, no. 3, 1966, 422-429
TOPIC TAGS: ammonium perchlorate, combustion, solid propellant
ABSTRACT: The thermal decomposition of ammonium perchlorate (AP) is discussed extensively in the literature. PA sublimes on heating under high vacuum. Sublimation is suppressed with rising pressure and decomposition with evolution of heat takes place. Burning of PA occurs only at higher pressures. The purpose of this work was to investigate the nature of combustion of PA depending on temperature, pressure, particle size, density, and addition of ammonium chloride. Experiments were conducted in a constant-pressure bomb under nitrogen. The temperature was maintained by circulation of a thermostated liquid. The rate of combustion was determined photographically on a moving film. Technical grade PA was used; results obtained from PA purified by recrystallization differed by no more than experimental error (:4%). Samples were obtained by pressing PA which had been ground and graded according to size. Formation
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ACC NR. AP7000046 SOURCE COD

SOURCE CODE: UR/0207/66/000/005/0017/0024

AUTHOR: Grigor'yev, Yu. M. (Moscow); Merzhanov, A. G. (Moscow); Pribytkova, K. V. (Moscow)

ORG: none

TITLE: Critical conditions of thermal explosion with conductive heat transfer in the reaction zone and surrounding medium (conjugate problem)

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1966, 17-24

TOPIC TAGS: thermal explosion, critical explosion condition, conductive heat transfer, physical chemistry theory

ABSTRACT: A study was made of the critical conditions of the thermal explosion of bodies having different geometrical shapes (indefinite plate of finite thickness, cylinder of infinite length and finite radius, and sphere), located in an indefinite medium in the presence of conductive heat transfer both in the internal and external regions (conjugate problem). An analysis was made of the external problem of the theory of thermal conductivity for the case involving constant temperature of the interface between the media. It was shown that, in the

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ACC NR: AP7000046

cases of plane and cylindrical symmetry, the existence of critical conditions for the thermal explosion is associated with the "burning out" of the substance in the preexplosion period, which takes place in the case of a nonzeroth order reaction. There exist no critical conditions for those shapes in the case of a zeroth order reaction. In the case when the temperature of the interface undergoes random variations, the conjugate problem is reduced to a boundary value problem; in this case, the criterial analysis method makes it possible to establish integrodifferential equations for heat fluxes across the surface of the body. Integro-differential equations were used for the criterial analysis of the system, and for the analysis of limiting cases of ideal heat transfer (boundary conditions of the first gender) and of the absence of temperature distribution in the reaction zone. Calculations of the critical conditions of the thermal explosion were carried out on an electronic computer, and the results were processed in the criterial form. The critical conditions of the thermal explosion of the system, initial substance — surrounding medium, were calculated under different specific conditions. The special features of the thermal explosion were analyzed for the case of conductive external heat removal. It was shown. that in the vicinity of critical conditions a quasi-stationary thermal regime holds for the reaction because of a decrease in time of the effective external heat transfer coefficient. The authors thank B. I.

Card 2/3

Khay figu:		V. Barzykin	for valuab	le advice.	Orig.	art. has:	7 A. 68] [B0]
SUB	CODE:20,21/	SUBM DATE:	25Ju165/	ORIG REF:	010/	OTH REF:	
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Card	3/3					·	
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EPA(w)-2/EWT(1)/EEC(t)/EMA(m)-2 Pi-4/Pe-6 IJP(c) 1, 47312-65 \$/0000/64/000/000/0295/0299 ACCESSION NR: AT5007922 AUTHOR: Val'ter, A. K.; Grigor'yev, Yu. N.; Dudkina, I. N.; Ivanov, V. F.; Il'in, O. G.; Koba, I. I.; Kondratenko, V. V.; Mocheshnikov, N. I.; Tarasenko, A. S.; Terekhov, B. A.; Tolstov, A. Ye.; Shenderovich, A. M.; Grishayev, I. A. TITLE: The apparatus of the Physicotechnical Institute, Academy of Sciences. Ukrainian SSR, for colliding electron beams with energies of 200 × 100 Mev for experiments on the scattering of electrons on electron SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 295-299 TOPIC TAGS: high energy accelerator, high energy plasma, particle beam, particle physics, charged particle beam ABSTRACT: Work on colliding electron beams in the Physicotechnical Institute, Academy of Sciences, Ukrainian SSR, was begun in 1960. The existence of linear electron accelerators was basic for the initiation of such work. At the first stage, it was decided to stop at electron storage devices of 100 Mev energy, since it was found that even at such comparatively small energies of the colliding beams Card 1/5

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ACCESSION NR: AT5007922

many problems can be solved. The most convenient storage design is a system of race-tracks with a common linear section in which the collision of the two beams is effected. A distinctive property of the Institute's storage device is the great lengths of the linear sections, equal to 50 and 80 cm for a radius of revolution of 50 cm. The great length of one pair of linear sections in each of the rings was selected in order to provide for measurement of the minimum angle of scattering. Selection of a small radius of revolution was due to the requirement of minimum equilibrium dimensions of the beam and to the tendency to have a not too long time for damping of the beam oscillations. To localize the region of interaction, the beam orbits are distorted in the vertical plane by means of two "intersecting" magnets that create a homogeneous field in the radial direction. The magnets are arranged in the corson linear section. The length of each of the "intersecting" magnets equals 1.0 cm, and the magnetic field strongth is up to 640 cersteds. The magnets deflect the equilibrium orbit by 1 cm from the median plane. The quadrants have a constant magnetic field index of n= 0.425. The coupled magnets in the section that is common for both orbits have zero gradient; the index in the remaining sections is $n_1 = 0.450$. The stability of the Institute's system is characterized by a diagram showing field index n in the quadrants versus the field index n in the coupled magnets. The regions of stability and resonance lines of various

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ACCESSION NR: AT5007922

orders are indicated in the diagram and discussed. The selected operating point is at a maximum distance from the resonances; in this case the frequencies of betatron radial and vertical (axial) oscillations are respectively equal to $v_n = 1.145$; $v_{z} = 0.6956$. The internal dimensions of the vacuum chamber were 100×40 mm. The determining problem here was the conditions governing the beam input into the storage device. The beam is fed to an inflector through a magnetic channel. The initial conditions are so chosen that the beam can by-pass in the first six revolutions the inflector set a distance of 2.25 cm from the equilibrium orbit. The behavior of the storage device in the first six revolutions is described. In case the trailing edge of the magnetic field pulse lasts for three revolutions of the particles in the storage device, the introduction of particles into the chamber can also be prolonged in the course of three revolutions. In order to capture particles in the storage device it is necessary to create with the help of inflector magnets a magnetic field strength of $R_{\rm I}$ = 1900 oersteds, $R_{\rm II}$ = 2630 oersteds. The system of tolerances is evaluated on the assumption of the following parameters for the input beam: width a=0.5 cm, height b=0.3 cm, angular divergence: radial $\Delta \gamma_{\rm m} = 2\cdot 10^{-3}$ and vertical $\Delta \gamma_{\rm m} = 5\cdot 10^{-4}$. Preliminary measurements indicate that this data can be realized in the case of the Institute's apparatus. The requirements on

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ACCESSION NR: AT5007922

the stability of the magnetic field of the inflector are: $\Delta H_1/H_1 = 10\%$, $\Delta H_{11}/H_{11} = 3\%$. Taking into consideration the indicated quantities, the maximum values of the curvature of the radial betatron oscillations will be equal respectively to $F_1 = 2.0$ cm, $F_{11} = 4.1$ cm. According to computations, the equilibrium dimensions of the beam must be $a_1 = 0.0\%$ cm; $a_1 = 0.2$ cm. Due to the quantum fluctuations in synchrotron radiation, the longitudinal dimension of the particle bunch equals 40 cm for a gap voltage of about 1.5 kilovolts. The mean energy expended on an electron per revolution, taking into account the coherent radiation, is equal to 220 electron-volts. The time of oscillation damping amounts to 100 msec. Alternate injection of the beam of electrons in the ring is effected by three sector magnets with double focusing. The introduction of a beam turned away from the accelerator and with zero initial conditions is ensured by the application of a cylindrical magnetic shield with a shielding coefficient varied along the length. All the magnets are supplied with power from sources that have a current stability of at least 0.02%. The report also discusses the vacuum chamber, voltage generator, and a few other aspects of the apparatus. Orig. art. has: 5 figures, 2 tables.

Card 4/5

I. L7312-65
ACCESSION NR: AT5007922

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physicotechnical Institute, AN UkrSSR)

SUBHITTED: 26May64 ENCL: OO SUB CODE: EE, NP

NO REF SOV: OOO OTHER: OOO

Card 5/57112

ACCESSION NR: AP3001770

s/0188/63/000/003/0032/0043

AUTHOR: Kolesnikov, N. N.; Grigor'yev, Yu. P.

TITLE: On the theory of isotope shifts.

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 3, 1963, 32-43

TOPIC TAGS: isotope shift, nuclear volume effect, band spectrum

ABSTRACT: A new relativistic formula for the nuclear volume effect to be used for investigations based on the isotope shift in line spectra has been derived on the basis of a rewritten solution of the Dirac X_1 and X_2 radial function equation. The trialment made possible the replacement of the Wilets formula with a more accurate one which takes into account the alterations of the electron wave function. The results obtained may be generalized to cases of nuclear densities which are neither restricted to finite distances nor spherically symmetrical. Orig. art. has: 1 table and 4 figures.

Cord 1/2

引起的 别

ACCESSION NR: AP3001770

ASSOCIATION: Kafedra elektrodinamiki i kvantovoy teorii (Department of Electrodynamics and Quantum Theory)

SUBMITTED: 04Jun62

DATE ACQ: 09Jul63

ENCL: 00

SUB CODE:

NO REF SOV: 005

OTHER: 021

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA

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s/0040/64/028/001/0025/0038 ACCESSION NR: AP4013378 AUTHOR: Crigor'yev, Ye. P. (Leningrad) TITLE: A class of linear optimal problems SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 1, 1964, 25-38 TOPIC TAGS: linear optimal problem, minimization of functionals, linear differential equation, variable coefficient, linear boundary condition, optimal control, variational problem ABSTRACT: The author studies the problem of minimization of functionals of special form with relations given by linear differential equations with variable coefficients and linear boundary conditions of general form. The functionals are given in the form of integrals of functions of the length of the vector of controls. The controls occur linearly in the right parts of the differential equations and are bounded in modulus. For such cases the author solves the problem of uniqueness and existence of optimal controls and establishes the relation between these problems and problems on high speed. He proposes methods for finding the gradients of minimizable functions with the help of solving certain systems of differential equations. Orig. art. has: 63 formulas. Card 1/

UMANSKIY, A.A.; AFANAS'YEV, A.M.; VOL'MIR, A.S.; GRIGOR'YEV, Yu.P.; KODANEV, A.I.; MAR'IN, V.A.; PRIGOROVSKIY, H.Y.; SNITKO, I.K., redaktor; AKHLAMOV, S.H., tekhnicheskiy redaktor.

[Collection of problems on the strength of materials] Sbornik sadach po soprotivleniiu materialov. Moskva, Gos. isd-vo tekhn.-teoret. lit-ry, 1954. 480 p. (MLRA 7:12) (Strength of materials)

FROLOV, Vindimir Moiseyevich; ORIGOR'YEV, Yu.P., kand. tekhn. nauk, red.;
SHEYMFAYE, L.I., izdatel'skiy red.; PUKHLIKOVA, N.A., tekhn. red.

[Using the method of correcting functions in calculating deformations of cantilever plates] Primements metoda korrektiruiushohei funktsii v raschetakh deformatsii konsol'nykh plastin,
Moskva, Gos. izd-vo obor. promyshl. 1957. 34 p. (Moscow, TSentral'nyi mero-gidrodinamicheskii institut. Trudy, no.705).

(Elastic plates and shells)

(MIRA 11:3)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

KISHLEV, Vladimir Filippovich; ORIGOR'INV...Lu.P., kand, tekhn. nauk, red.;

KUZNETSOVA, A.O., isdatel'skiy red.; LEBEDSVA, L.A., tekhn. red.

[Stress analysis of a delta wing taking the elastic sealing into consideration] Metod rescheta trengol'nogo kryla ma prochnost's uchetom uprugoi sadelki, Moskva, Gos. isd-vo oboronnoi promyshl.,

1957. 41 p. (Moscow. TSentral'nyi aero-gidrodinasicheskii institut.

Trudy, no.703).

(Airfoils)

(MIRA 11:1)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

UMANSKIY, Aleksandr Azar'yevich; GRIGOR'YEV, Yu.P., kand. tekhn. nauk, dotsent; ROSTOVTSEV, G.G., doktor tekhn. nauk, prof., retsenzent; ZASLAVSKIY, B.V., kand. tekhn. nauk, red.; BELEVTSEVA, A.G., red. izd-va; ROZHIN, V.P., tekhn. red.

[Structural mechanics of airplanes] Stroitel'naia mekhanika samoleta.
Moskva, Gos. nauchno-tekhn. izd-vo Oborongiz, 1961. 528 p.

(MIRA 14:12)

(Airplanes) (Strength of materials)

建筑的数据。这

\$/133/62/000/006/008/015 A054/A127

AUTHORS:

Murdasov, A. V., Grigor'yev, Yu. P.

TITLE:

The optimum pressure applied to the grinding wheel in polishing

metals

PERIODICAL: Stal', no. 6, 1962, 541

TEXT: Tests were carried out at the Chelyabinskiy metallurgicheskiy zavod (Chelyabinsk Metallurgical Plant) to determine the optimum pressure for grinding wheels. In these tests, 1X18H9T (1Khi8N9T) grade steel was polished with 3125CT 3E (E125ST3B) type, 300 x 40 x 75 mm size wheels, having the same hardness and volumetric weight, while radial forces of 40, 65 and 95 kg were applied. It was found that when the radial forces increased, the consumption of the grinding wheels rises beyond their productivity. When the radial force is increased from 40 to 95 kg, the quantity of metal removed will be raised from 61 to 196 gr/min, while the consumption of wheels rises from 35 to 169 gr/min. Thus, the specific output of the wheels (i.e. the quantity of metal polished off per unit weight of the wheel) is reduced by a factor of more than 1.5. The tests and cal-

Card 1/2

The optimum pressure...

S/133/62/000/006/008/015 A054/A127

culations showed that applying radial forces between 40 and 80 kg reduces the initial costs of the process. Although the specific output of the wheels decreases in this case and consequently the consumption of wheels will be higher, the increased output saves money owing to less labor being required for the process for polishing per unit weight of the metal. At the Chelyabinsk Metal-lurgical Plant, the E125ST3B grinding wheels are operated at a pressure of 60 - 65 kg, which increases the productivity of the process by 35 - 50%. There are 2 figures.

ASSOCIATION: UralVNIIASh

Card 2/2

ACCESSION NR: AT4014049

\$/3073/63/000/000/0170/0177

AUTHOR: Grigor'yev, Yu. P.

TITLE: Analysis of the reasons for the scatter of fatigue test results

SOURCE: Prochnost' metallov pri peremenny*kh nagruzkakh; materialy* tret'yego soveshchaniya po ustalosti metallov, 1962 g. Moscow, Izd-vo AN SSSR, 1963, 170-177

TOPIC TAGS: fatigue, fatigue test, metal fatigue

ABSTRACT: The exact determination of the mechanical characteristics of a metal requires a large number of specimens to make statistical treatment of the experimental results applicable. The analysis of the distribution of experimental points shows that the scattering of the stresses in the specimens obeys the normal distribution law, but that the normal logarithmic distribution law has to be applied to the number of fatigue cycles. The distribution of the number of cycles can be expressed by the formula:

$$\Delta \log N = BC = \frac{2 \Delta \sigma}{\log \omega} \tag{1}$$

where BC is the interval of scattering, \(\Delta\) log N is the increase in the logarithm Cost the number of cycles, \(\Delta\sigma\) the maximum deviation of the true stress from any

ACCESSION NR: AT4014049

mean value, and of the angle of inclination of the fatigue curve. Analysis of the experimental data on the fatigue strength of construction materials showed that, in the interval of limited durability of the material, the scatter of the number of cycles is 10 - 20 times larger than the scatter of the stresses. Orig. art. has:

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 20Feb64

ENCL: 00

SUB CODE: MM JE

NO REF SOV: 003

OTHER: 0007

0

Card 2/2

ACC NR: AP7002634 (/) N) SOURCE CODE: UR/0413/66/000/023/01-5/0185

INVENTOR: Grigor'yev, Yu. P.; Morozov, A. A.

ORG: None

TITLE: A device for determining the most significant digit in the difference between two binary numbers. Class 42, No. 134071

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 196, 185

TOPIC TAGS: binary number, digital system, computer component

ABSTRACT: This Author's Certificate introduces a device for determining the most significant digit in the difference between two binary numbers being compared by digits. The device is simplified and its speed is increased by connecting the inputs to an exclusive OR circuit which is connected through a blocking circuit to the generators of the "ones" connected to the second inputs of the corresponding cells in the blocking circuit. The inputs of the device are also connected to switches with their second inputs tied to the output of the exclusive OR circuit and their outputs connected through shift circuits to the memory circuit which serves as the output for the device.

SUB CODE: 09/ SUBM DATE: 07Mar60

Card 1/1

UMANSKIY, A.A.; AFANAS'YEV, A.M.; VOL'MIR, A.S.; GRIGOR'YEV Vn.P.; KODANEV, A.I.; MAR'IN, V.A.; MOVITCKIY, V.V.; TIKHOMIROV, Ye.N., retsenzent; SNITKO, I.K., red.

[Collection of problems on the strongth of materials] Sbornik zadach po soprotivleniiu materialov. 1zd.2., perer. i dop. Moskva, Nauka, 1964. 550 p. (MIRA 18:1)

GRICOR'YEV, Yu.S.

Ivan Tikhonovich Vasil*chenk; 1903 -; on the occasion of his 60th birthday and the 35th anniversary of his research activities. Bot. zhur. 49 no.7:1085-1087 Jl *64 (MIRA 17:8)

1. Institut botaniki AN UmSSR, Tashkent.

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

DUTKIN, G.S.; ROSHCHIN, P.I.; CHUKHOV, S.P.; GRIGOR'YEV, Yu.S., red.; PRILEPSKAYA, V.D., tekhn. red.

[Electric insulators and accessories of 35 to 500 kv. electric power transmission lines] Isoliatory i armatura linii elektroperedachi 35-500 kv. Moskva, 1959. 92 p. (MIRA 14:9)

1. Moscow. Nauchno-issledovatel'skiy institut elektropromyshlennosti.
TSentral'noye byuro tekhnicheskoy informatsii.
(Electric lines-Overhead)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

VVEDENSKIY, A.I.; GRIGOR'YEV, Yu.S.; KNORRING, I.G.; KRECHETOVICH, V.I.; OVCHINNIKOV, P.N.; FILATOVA, I.F.; CHUKAVINA, A.P.; ZENDEL', M.Ye., tekhn. red.

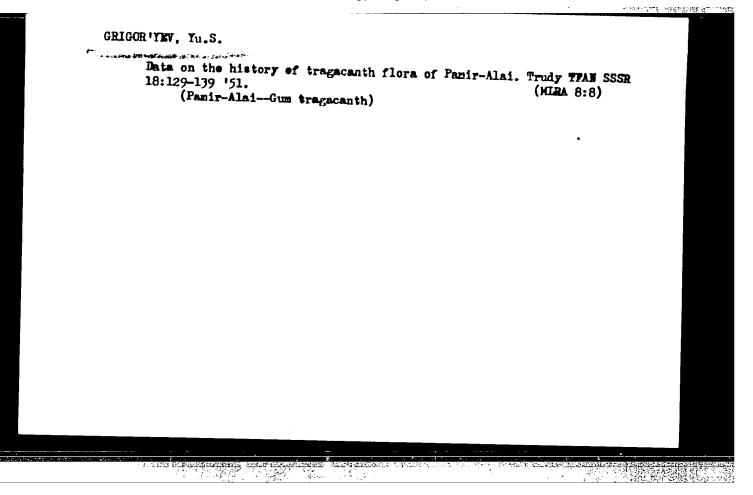
[Flora of the Tajik S.S.R.]Flora Tadzhikskoi SSR. Glav. red. P.N.Ovchinnikov. Moskva, Izd-vo AN SSSR. Vol.2.[Cyperaceae - Orchidaceae]Osokovye-Orkhidnye. 1963. 454 p. (MIRA 16:8) (Tajikistan--Monocotyledons)

BARANNIKOV, A.A., inzh., Grigoriazv, Yu.d.

Starting, adjusting, and regulating operations at the "Kemasmoleta" coal preparation plant. Nauch.trudy KnzNildglerbog. nc.2178-86 [64.]

(MIRA 17:26)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820



GURSKIY, A.V.; KANEVSKAYA, I.B.; OSTAPOVICH, L.F.; GRIGOR'YEV, Yu.S., otv. red.; MATVEYEV, M.I., red.; KOTSABENKO, Ye.G., red.izd-va; FROLOV, P., tekhn.red.

[Principal results of introducing plants in the Pamir Botanical Garden] Osnovnye itogi introduktsii rastenii v Pamirskom botanicheskom sadu. Stalinabad. Isd-vo Akad nauk Tadsh SSR. 1953. 97 p. (Akademiia nauk Tadshikskoi SSR, Stalinabad. Trudy. vol.16) (MIRA 12:6)

(Gorno-Badakhshan Autonomous Province-Botanical gardens)

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KORSONSKAYA, Ya.I.; GRIGOR'YEV, Yu.S., redaktor; KOROLEVA, A.S., redaktor; FROLOV, P.M., tekhnicheskiy redaktor.

[Rust fungi of Tajikistan] Rzhavchinnye griby Tadzhikistana.
Stalinabad, Izd-vo Akademii nauk Tadzhikskoi SSR, 1954. 94 p.
(Akademiia nauk Tadzhikskoi SSR, Stalinabad, Trudy, vol.30).

(MLRA 9:11)

(Tajikistan--Uredineae)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

GRIGOR'YEV, Yu.S.; KUPREVICH, V.F.; redaktor; VIKHREV, S.D., redaktor;

AROS., R.A., tekhnicheskiy redaktor.

[Comparative-ecological study of the xerophilisation of higher plants] Sravnitel'no-ekologicheskoe issledovanie kserofili-xatsii vysshikh rastenii. Moskva, Isd-vo Akademii nauk SSSR, 1955. 157 p.

(Xerophytes)

(Xerophytes)

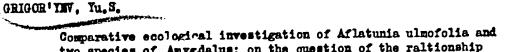
APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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GRICOR'YEV, Yu.S.

One of the immediate tasks of present-day biology. Isv.Otd.est. nauk AN Tadsh.SSR no.12:99-110 '55. (MLRA 9:10)

1. Sovet proisvoditel nykh sil Severa Akademii nauk Tadshikekoy SSR.
(BIOLOGY)



two species of Amygdalus; on the question of the raltionship between experimental and "descriptive" botany. Izv. Otd. est. nauk AN Tadzh. SSE no. 20:71-92 '57. (NIRA 11:8)

1. Sovet po isucheniyu proisvoditel nykh sil AN Tadzhikakov SSR. (Almond)

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